Please cancel claims 10, 14, 35-38, 41 and 42.

- 1. (Amended) A method for modulating the expression of an exogenous gene in an isolated cell containing:
- (i) a DNA construct comprising said exogenous gene under the control of a response element, wherein said response element has substantially no binding affinity for farnesoid X receptor (FXR); and
- (ii) a modified ecdysone receptor which, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response element;

said method comprising providing to the cell an effective amount of one or more ligands for said modified ecdysone receptor; wherein said one or more ligands are not normally present in the cell; and wherein said one or more ligands are not toxic to said cell.

- 6. (Amended) A method according to claim 2 wherein said activation domain is a glucocorticoid receptor activation domain, a VP16 activation domain or a GAL4 activation domain.
- 7. (Amended) A method according to claim 6 wherein said modified ecdysone receptor is VpEcR, VgEcR or GecR.

13. (Amended) A method according to claim 1 wherein said response element is a modified response element which comprises, in any order, a first half-site and a second half-site separated by a spacer of 0-5 nucleotides;

wherein said first half-site has the sequence?

-RGBNNM-,

wherein

each R is independently selected from A or G;

each B is independently selected from G, C, or T;

each N is independently selected from A, T, C, or G; and

each M is independently selected from A or C;

with the proviso that

at least 4 nucleotides of each -RGBNNM- group of nucleotides are identical with the nucleotides at comparable positions of the sequence -AGGTCA-; and

said second half-site is obtained from a glucocorticoid receptor subfamily response element.

(Amended) A method according to claim 19 wherein said wild type gene encodes 20. products:

the substantial absence of which leads to the occurrence of a non-normal state in said cell; or a substantial excess of which leads to the occurrence of a non-normal state in said cell.

21. (Amended) A method according to claim 19 wherein said therapeutic gene encodes products:

which are toxic to the cells in which they are expressed; or which impart a beneficial property to cells in which they are expressed.

- 22. (Amended) A method of inducing the expression of an exogenous gene in an isolated cell containing:
- (i) a DNA construct comprising an exogenous gene under the control of a response element, wherein said response element has substantially no binding affinity for farnesoid X receptor (FXR);
- DNA encoding a modified ecdysone receptor under the control of an inducible promoter, wherein said modified ecdysone receptor, in the presence of a ligand therefor, and optionally

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SALK 1520-2 (Atty Docket No. 088802-8752)

in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response clement, and

> (iii) one or more ligands for said modified ecdysone receptor;

said method comprising subjecting said cell to conditions suitable to induce expression of said modified ecdysone receptor.

23. (Amended) A method of inducing expression of an exogenous gene in an isolated cell containing a DNA construct containing said exogenous gene under the control of a response element, wherein said response element has substantially no binding affinity for farnesoid X receptor (FXR), said method comprising introducing into said cell:

a modified ecdysone receptor; and

one or more ligands for said modified ecdysone receptor,

wherein said receptor, in combination with a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response element, activating transcription therefrom.

24. (Amended) A method for the expression of a recombinant product detrimental to isolated host cells, said method comprising:

transforming suitable is blated host cells with:

- a DNA construct encoding said recombinant product under the control of a response element, wherein said response element has substantially no binding affinity for farnesoid X rcceptor (FXR), and
  - (ii) DNA encoding a modified ecdysone receptor;

growing said host cells in suitable media; and

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SALK 1520-2 (Atty Docket No. 088802-8752)

inducing expression of said recombinant product by introducing into said host cells one or more ligands for said modified ecdysone receptor, and optionally a receptor capable of acting as a silent partner for said modified ecdysone receptor.

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- 39. (Amended) A method according to claim 13, wherein said first half-site is obtained from an ecdysone response element and said second half-site is obtained from a glucocorticoid response element, a mineralocorticoid response element, a progesterone response element or an androgen response element.
- 40. (Amended) A method according to claim 39, wherein said second half-site is obtained from a glucocorticoid response element.

50. (Amended) A method for modulating the expression of an exogenous gene in an isolated cell containing:

- (i) a DNA construct comprising said exogenous gene under the control of an ecdysone response element; and
- (ii) a modified receptor which, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said ecdysone response element, wherein said modified receptor has substantially no binding affinity for endogenous response elements;

said method comprising providing to the cell an effective amount of one or more ligands for said modified receptor; wherein said one or more ligands are not normally present in the cell; and wherein said one or more ligands are not toxic to said cell.

51. (Amended) A method according to claim 54, wherein said receptor capable of acting as a silent partner is RXR.

52. (Amended) A method according to claim 54, wherein said receptor capable of acting as a silent partner is ultraspiracle.

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- 53. (Amended) A method according to claim 50, wherein said cell is a mammalian cell.
- 54. (Amended) A method according to claim 50, wherein said receptor capable of acting as a silent partner is present.
  - 55. (Amended) A method according to claim 51, wherein said RXR is exogenous to said
    - 56. (Amended) A method according to claim 50 wherein said modified receptor comprises:
    - (i) a ligand binding domain capable of binding an ecdysteroid;
  - (ii) a DNA-binding domain derived from a DNA-binding protein, wherein said DNA-binding domain has substantially no binding affinity for endogenous response elements; and
    - (iii) an activation domain of a transcription factor,

with the proviso that when said activation domain is derived from a glucocorticoid receptor, said DNA-binding domain is not derived from a glucocorticoid receptor or an E. coli LexA protein.

Please add the following new claims:

57. (New) A method according to claim 56 wherein said modified receptor is further characterized as having substantially no activity in mammalian cells.

- 58. (New) A method according to claim 56 wherein the DNA-binding domain of said modified receptor is derived from a member of the steroid/thyroid hormone superfamily of receptors.
- 59. (New) A method according to claim 56 wherein said activation domain is derived from a member of the steroid/thyroid hormone superfamily of receptors.
- 60. (New) A method according to claim 56 wherein said activation domain is a glucocorticoid receptor activation domain, a VP16 activation domain or a GAL4 activation domain.
- 61. (New) A method according to claim 50, wherein said ecdysone response element has substantially no binding affinity for farnesoid X receptor (FXR).
- 62. (New) A method according to claim 50 wherein said modified receptor has an altered DNA binding specificity relative to the wildtype receptor from which it is derived.
- 63. (New) A method according to claim 50 wherein said modified receptor is present primarily in the form of a homodimer.

64. (New) A method according to claim 50 wherein said exogenous gene is a wild type gene and/or therapeutic gene.

65. (New) A method according to claim 64 wherein said wild type gene encodes products: the substantial absence of which leads to the occurrence of a non-normal state in said cell; or a substantial excess of which leads to the occurrence of a non-normal state in said cell.

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66. (New) A method according to claim 64 wherein said therapeutic gene encodes products: which are toxic to the cells in which they are expressed; or which impart a beneficial property to cells in which they are expressed.

- 67. (New) A method of inducing the expression of an exogenous gene in an isolated cell containing:
- (i) a DNA construct comprising an exogenous gene under the control of an ecdysone response element,
- (ii) DNA encoding a modified receptor under the control of an inducible promoter, wherein said modified receptor, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said ecdysone response element, wherein said modified receptor has substantially no binding affinity for endogenous response elements;
  - (iii) one or more ligands for said modified receptor;

said method comprising subjecting said cell to conditions suitable to induce expression of said modified receptor.

68. (New) A method of inducing expression of an exogenous gene in an isolated cell containing a DNA construct containing said exogenous gene under the control of an ecdysone response element, said method comprising introducing into said cell:

a modified receptor, wherein said modified receptor has substantially no binding affinity for endogenous response elements; and

one or more ligands for said modified receptor,

wherein said modified receptor, in combination with a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said ecdysone response element, activating transcription therefrom.

(New) A method for the expression of a recombinant product detrimental to isolated host 69. cells, said method comprising:

transforming suitable isolated host cells with:

- a DNA construct encoding said recombinant product under the control of an ecdysone response element, and
- DNA encoding a modified receptor, wherein said modified receptor has (ii) substantially no binding affinity for endogenous response/elements; and

growing said host cells in suitable media; and

inducing expression of said recombinant product by introducing into said host cells one or more ligands for said modified ecdysone receptor, and optionally a receptor capable of acting as a silent partner for said modified ecdysone receptor.

- (New) A method for modulating the expression of an exogenous gene in an isolated cell 70. containing:
- a DNA construct comprising said exogenous gene under the control of an ecdysone (i) response element; and
- a modified receptor/which, in the presence of a ligand therefor, and optionally in the (ii) further presence of a receptor capable of acting as a silent partner therefor, binds to said ecdysone response element wherein said modified receptor has substantially no constitutive activity in mammalian cells,

said method comprising providing to the cell an effective amount of one or more ligands for said modified ecdysone receptor; wherein said one or more ligands are not normally present in the cell; and wherein said one or more ligands are not toxic to said cell.





- 71. (New) A method for modulating the expression of an exogenous gene in an isolated cell containing:
- (i) a DNA construct comprising said exogenous gene under the control of an ecdysone response element; and
- (ii) a modified ecclysone receptor which, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said ecclysone response element, wherein said modified receptor has an altered DNA binding specificity relative to the wildtype receptor from which it is derived;

said method comprising providing to the cell an effective amount of one or more ligands for said modified ecdysone receptor; wherein said one or more ligands are not normally present in the cell; and wherein said one or more ligands are not toxic to said cell.

- 72. (New) A method for modulating the expression of an exogenous gene in a mammalian subject containing:
- (i) a DNA construct comprising said exogenous gene under the control of a response element, wherein said response element has substantially no binding affinity for farnesoid X receptor (FXR); and
- (ii) a modified ecdysone receptor which, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response element;

said method comprising providing to said subject an effective amount of one or more ligands for said modified ecdysone receptor; wherein said one or more ligands are not normally present in said subject; and wherein said one or more ligands are not toxic to said subject.

- 73. (New) A method of inducing the expression of an exogenous gene in a mammalian subject containing:
- (i) a DNA construct comprising an exogenous gene under the control of a response element, wherein said response element has substantially no binding affinity for farnesoid X receptor (FXR);

- (ii) DNA encoding a modified ecdysone receptor under the control of an inducible promoter, wherein said modified ecdysone receptor, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response element; and
  - (iii) one or more ligands for said modified ecdysone/receptor;

said method comprising subjecting said subject to conditions suitable to induce expression of said modified ecdysone receptor.

74. (New) A method of inducing expression of an exogenous gene in a mammalian subject containing a DNA construct containing said exogenous gene under the control of a response element, wherein said response element has substantially no binding affinity for farmesoid X receptor (FXR), said method comprising introducing into said subject:

a modified ecdysone receptor; and

one or more ligands for said modified ecdysone receptor,

wherein said modified ecdysone receptor, in combination with a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response element, activating transcription therefrom.

- 75. (New) A method for modulating the expression of an exogenous gene in a mammalian subject containing:
- (i) a DNA construct comprising said exogenous gene under the control of an ecydsone response element; and
- (ii) a modified receptor which, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said response element, wherein said modified receptor has substantially no binding affinity for endogenous response elements;

said method comprising providing to said subject an effective amount of one or more ligands for



said modified receptor; wherein said one or more ligands are not normally present in said subject; and wherein said one or more ligands are not toxic to said subject.

- 76. (New) A method of inducing the expression of an exogenous gene in a mammalian subject containing:
- (i) a DNA construct comprising an exogenous gene under the control of an ecdysone response element,
- (ii) DNA encoding a modified receptor under the control of an inducible promoter, wherein said modified receptor, in the presence of a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said ecdysone response element, wherein said modified receptor has substantially no binding affinity for endogenous response elements;
- (iii) one or more ligands for said modified receptor;
  said method comprising subjecting said subject to conditions suitable to induce expression of said modified receptor.

77. (New) A method of inducing expression of an exogenous gene in a mammalian subject containing a DNA construct containing said exogenous gene under the control of an ecdysone response element, said method comprising introducing into said subject:

a modified receptor, wherein said modified receptor has substantially no binding affinity for endogenous response elements; and

one or more ligands for/said modified receptor,

wherein said modified receptor, in connection with a ligand therefor, and optionally in the further presence of a receptor capable of acting as a silent partner therefor, binds to said ecdysone response element, activating transcription therefrom.